## /IB2004/051258 A. CLASSIFICATION OF SUBJECT MATTER IPC 7 G11B7/125 G11E ĜiĵB20/10 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC 7 G11B Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, PAJ C. DOCUMENTS CONSIDERED TO BE RELEVANT Category \* Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. X EP 1 182 651 A (RICOH COMPANY, LTD) 1-6 27 February 2002 (2002-02-27) paragraph '0002! - paragraph '0019! paragraph '0082! - paragraph '0118! paragraph '0148! - paragraph '0217! X US 2002/024903 A1 (SATO SHINICHI) 1-6 28 February 2002 (2002-02-28) paragraph '0001! - paragraph '0014! paragraph '0048! - paragraph '0066! paragraph '0074! - paragraph '0080! paragraph '0088! - paragraph '0096! X US 2003/086346 A1 (FUKUMOTO MAKOTO) 1.3 8 May 2003 (2003-05-08) paragraph '0001! - paragraph '0010! Α 2,4-6paragraph '0026! - paragraph '0047! Further documents are listed in the continuation of box C. Patent family members are listed in annex. Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance 'E' earlier document but published on or after the international 'X' document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to filing date \*L\* document which may throw doubts on priority claim(s) or involve an inventive step when the document is taken alone which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docu-O document referring to an oral disclosure, use, exhibition or other means ments, such combination being obvious to a person skilled document published prior to the International filing date but later than the priority date claimed \*&\* document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 6 April 2005 04/05/2005

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## itional Application No /IB2004/051258

CORPORATION; PIONEER VIDEO CORPORATION) 8 March 1995 (1995-03-08) the whole document  2,4-6  PATENT ABSTRACTS OF JAPAN vol. 2003, no. 07, 3 July 2003 (2003-07-03) -& JP 2003 085761 A (RICOH CO LTD), 20 March 2003 (2003-03-20)	m No.
10 November 1998 (1998-11-10) the whole document  EP 0 642 128 A (PIONEER ELECTRONIC CORPORATION; PIONEER VIDEO CORPORATION) 8 March 1995 (1995-03-08) the whole document  2,4-6  PATENT ABSTRACTS OF JAPAN vol. 2003, no. 07, 3 July 2003 (2003-07-03) -& JP 2003 085761 A (RICOH CO LTD), 20 March 2003 (2003-03-20)	
10 November 1998 (1998-11-10) the whole document  2	
X EP 0 642 128 A (PIONEER ELECTRONIC CORPORATION; PIONEER VIDEO CORPORATION) 8 March 1995 (1995-03-08) the whole document 2,4-6  X PATENT ABSTRACTS OF JAPAN vol. 2003, no. 07, 3 July 2003 (2003-07-03) -& JP 2003 085761 A (RICOH CO LTD), 20 March 2003 (2003-03-20)	
CORPORATION; PIONEER VIDEO CORPORATION)  8 March 1995 (1995-03-08)  the whole document  2,4-6  PATENT ABSTRACTS OF JAPAN vol. 2003, no. 07, 3 July 2003 (2003-07-03) -& JP 2003 085761 A (RICOH CO LTD), 20 March 2003 (2003-03-20)	
A the whole document 2,4-6  X PATENT ABSTRACTS OF JAPAN 1-4  vol. 2003, no. 07, 3 July 2003 (2003-07-03) -& JP 2003 085761 A (RICOH CO LTD), 20 March 2003 (2003-03-20)	
vol. 2003, no. 07, 3 July 2003 (2003-07-03) -& JP 2003 085761 A (RICOH CO LTD), 20 March 2003 (2003-03-20)	<b>;</b>
A the whole document 5,6	

## stional Application No /IB2004/051258

Patent document clied in search report		Publication date		Patent family member(s)	Publication date
EP 1182651	A	27-02-2002	JP JP JP EP US	2002056533 A 3532152 B2 2002170237 A 1182651 A2 2002044507 A1	22-02-2002 31-05-2004 14-06-2002 27-02-2002 18-04-2002
US 2002024903	A1	28-02-2002	JP US	2001344754 A 2003185123 A1	14-12-2001 02-10-2003
US 2003086346	A1	08-05-2003	JP	2003141728 A	16-05-2003
US 5835462	A	10-11-1998	BE AT CA CN CZ DE DE ES GR WO JP TW	1009677 A3 184416 T 2206297 A1 1475991 A 1182497 A ,C 9701610 A3 69604189 D1 69604189 T2 0852796 A1 2138831 T3 3031923 T3 1012520 A1 9713244 A1 16343 A 11513521 T 397974 B	03-06-1997 15-09-1999 10-04-1997 18-02-2004
EP 0642128	Α	08-03-1995	JP DE DE EP US	7073471 A 69416472 D1 69416472 T2 0642128 A1 5592463 A	17-03-1995 25-03-1999 19-08-1999 08-03-1995 07-01-1997
JP 2003085761	Α	20-03-2003	NONE		